

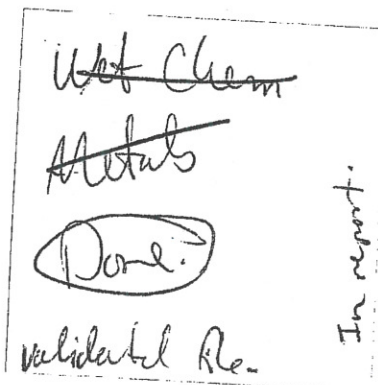
ANALYTICAL REPORT

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:

Job Number: 360-31119-1

Job Description: Olin Chemical SemiAnnual Groundwater

For:
Olin Corporation
3855 North Ocoee Street
Suite 200
Cleveland, TN 37312-4441
Attention: Mr. Steven Morrow



Joseph A. Chimi

Approved for release.
Joe Chimi
Report Production Representative
11/30/10 11:10 AM

Designee for
Becky C Mason
Project Manager II
becky.mason@testamericainc.com
11/30/2010

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NH DES 2539, NELAP FL E87912 TOX, NELAP NJ MA008 TOX, NELAP NY 10843, NY ELAP 10843, North Carolina 647, NELAP PA 68-04386. Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.

TestAmerica Laboratories, Inc.

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MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Westfield** Project #: **360-31119-1**

Project Location: RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

360-31119-(1-9)

Matrices: ☒ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	332.0 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: 

Position: Laboratory Director

Printed Name: Steven C. Hartmann

Date: 11/30/10 10:59

This form has been electronically signed and approved

CASE NARRATIVE

Client: Olin Corporation

Project: Olin Chemical SemiAnnual Groundwater

Report Number: 360-31119-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/16/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.0 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2 C of the required temperature or method specified range. For samples with a specified temperature of 4 C, samples with a temperature ranging from just above freezing temperature of water to 6 C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DISSOLVED METALS

Samples OC-GW-10S (360-31119-1), OC-GW-201S (360-31119-2), OC-GW-24 (360-31119-3), OC-GW-26 (360-31119-4), OC-PZ-18R (360-31119-5), OC-GW-35S (360-31119-6), OC-GW-25 (360-31119-7), OC-GW-76S (360-31119-8) and OC-GW-CA1 (360-31119-9) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were analyzed on 11/19/2010.

Sample OC-GW-201S (360-31119-2)[2X] required dilution prior to analysis due to high non-target concentration. The reporting limits have been adjusted accordingly.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No difficulties were encountered during the dissolved metals analyses.

All quality control parameters were within the acceptance limits.

ANIONS

Samples OC-GW-10S (360-31119-1), OC-GW-201S (360-31119-2), OC-GW-24 (360-31119-3), OC-GW-26 (360-31119-4), OC-PZ-18R (360-31119-5), OC-GW-35S (360-31119-6), OC-GW-25 (360-31119-7), OC-GW-76S (360-31119-8) and OC-GW-CA1 (360-31119-9) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 11/22/2010, 11/23/2010 and 11/24/2010.

Samples OC-GW-201S (360-31119-2)[10X], OC-GW-201S (360-31119-2)[50X], OC-GW-26 (360-31119-4)[10X], OC-PZ-18R (360-31119-5)[10X], OC-GW-25 (360-31119-7)[10X], OC-GW-76S (360-31119-8)[10X] and OC-GW-CA1 (360-31119-9)[10X] required dilution prior to analysis due to high target concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

AMMONIA

Samples OC-GW-10S (360-31119-1), OC-GW-201S (360-31119-2), OC-GW-24 (360-31119-3), OC-GW-26 (360-31119-4), OC-PZ-18R (360-31119-5), OC-GW-35S (360-31119-6), OC-GW-25 (360-31119-7), OC-GW-76S (360-31119-8) and OC-GW-CA1 (360-31119-9) were analyzed for ammonia in accordance with Lachat 107-06-1B. The samples were prepared on 11/23/2010 and analyzed on 11/24/2010.

Samples OC-GW-201S (360-31119-2)[10X], OC-GW-24 (360-31119-3)[5X], OC-GW-26 (360-31119-4)[5X] and OC-GW-25

(360-31119-7)[5X] required dilution prior to analysis due to high concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTIVITY

Samples OC-GW-10S (360-31119-1), OC-GW-201S (360-31119-2), OC-GW-24 (360-31119-3), OC-GW-26 (360-31119-4), OC-PZ-18R (360-31119-5), OC-GW-35S (360-31119-6), OC-GW-25 (360-31119-7), OC-GW-76S (360-31119-8) and OC-GW-CA1 (360-31119-9) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 11/18/2010.

No difficulties were encountered during the conductivity analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-31119-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
360-31119-1	OC-GW-10S				
Sulfate		58	2.0	mg/L	300.0
Chloride		21	1.0	mg/L	300.0
Ammonia		0.23	0.10	mg/L	L107-06-1B
Specific Conductance		170	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Aluminum		2900	100	ug/L	6010B
Chromium		1.9 J	5.0	ug/L	6010B
360-31119-2	OC-GW-201S				
Sulfate		1900	100	mg/L	300.0
Chloride		140	10	mg/L	300.0
Ammonia		160	1.0	mg/L	L107-06-1B
Specific Conductance		3600	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium		32	10	ug/L	6010B
360-31119-3	OC-GW-24				
Sulfate		67	2.0	mg/L	300.0
Chloride		9.8	1.0	mg/L	300.0
Ammonia		28	0.50	mg/L	L107-06-1B
Specific Conductance		360	1.0	umhos/cm	SM 2510B
360-31119-4	OC-GW-26				
Sulfate		99	2.0	mg/L	300.0
Chloride		69	10	mg/L	300.0
Ammonia		28	0.50	mg/L	L107-06-1B
Specific Conductance		550	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium		7.3	5.0	ug/L	6010B
360-31119-5	OC-PZ-18R				
Sulfate		110	20	mg/L	300.0
Chloride		100	10	mg/L	300.0
Ammonia		20	0.10	mg/L	L107-06-1B
Specific Conductance		680	1.0	umhos/cm	SM 2510B
<i>Dissolved</i>					
Chromium		7.2	5.0	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-31119-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
360-31119-6	OC-GW-35S					
Sulfate		98		2.0	mg/L	300.0
Chloride		4.0		1.0	mg/L	300.0
Ammonia		17		0.10	mg/L	L107-06-1B
Specific Conductance		450		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Aluminum		26	J	100	ug/L	6010B
Chromium		25		5.0	ug/L	6010B
360-31119-7	OC-GW-25					
Sulfate		93		2.0	mg/L	300.0
Chloride		130		10	mg/L	300.0
Ammonia		42		0.50	mg/L	L107-06-1B
Specific Conductance		780		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Chromium		2.8	J	5.0	ug/L	6010B
360-31119-8	OC-GW-76S					
Sulfate		55		2.0	mg/L	300.0
Chloride		71		10	mg/L	300.0
Ammonia		17		0.10	mg/L	L107-06-1B
Specific Conductance		410		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Aluminum		14	J	100	ug/L	6010B
Chromium		3.1	J	5.0	ug/L	6010B
360-31119-9	OC-GW-CA1					
Sulfate		100		20	mg/L	300.0
Chloride		11		1.0	mg/L	300.0
Ammonia		1.1		0.10	mg/L	L107-06-1B
Specific Conductance		600		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Aluminum		20	J	100	ug/L	6010B
Chromium		8.8		5.0	ug/L	6010B

METHOD SUMMARY

Client: Olin Corporation

Job Number: 360-31119-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Dissolved Metals Sample Filtration, Field	TAL WFD	SW846 6010B	FIELD_FLTRD
Chloride & Sulfate	TAL WFD	40CFR136A 300.0	
Nitrogen Ammonia Distillation, Ammonia	TAL WFD TAL WFD	LACHAT L107-06-1B	Distill/Ammonia
Conductivity, Specific Conductance	TAL WFD	SM SM 2510B	

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

LACHAT = LACHAT

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Olin Corporation

Job Number: 360-31119-1

Method	Analyst	Analyst ID
SW846 6010B	Smith, Tim J	TJS
40CFR136A 300.0	Emerich, Rich W	RWE
LACHAT L107-06-1B	Emerich, Rich W	RWE
SM SM 2510B	Stewart, Alyse M	AMS

SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 360-31119-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-31119-1	OC-GW-10S	Water	11/16/2010 1320	11/16/2010 1720
360-31119-2	OC-GW-201S	Water	11/16/2010 1255	11/16/2010 1720
360-31119-3	OC-GW-24	Water	11/16/2010 1410	11/16/2010 1720
360-31119-4	OC-GW-26	Water	11/16/2010 1150	11/16/2010 1720
360-31119-5	OC-PZ-18R	Water	11/16/2010 1405	11/16/2010 1720
360-31119-6	OC-GW-35S	Water	11/16/2010 1120	11/16/2010 1720
360-31119-7	OC-GW-25	Water	11/16/2010 0905	11/16/2010 1720
360-31119-8	OC-GW-76S	Water	11/16/2010 1035	11/16/2010 1720
360-31119-9	OC-GW-CA1	Water	11/16/2010 1010	11/16/2010 1720

SAMPLE RESULTS

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

Client Sample ID: OC-GW-10S

Lab Sample ID: 360-31119-1

Client Matrix: Water

Date Sampled: 11/16/2010 1320

Date Received: 11/16/2010 1720

6010B Dissolved Metals-Dissolved

Method: 6010B

Analysis Batch: 360-66152

Instrument ID: Varian ICP

Preparation: N/A

Lab File ID: 111910d.csv

Dilution: 1.0

Initial Weight/Volume: 1.0 mL

Date Analyzed: 11/19/2010 1534

Final Weight/Volume: 1.0 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	2900		12	100
Chromium	1.9	J	0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

Client Sample ID: OC-GW-201S

Lab Sample ID: 360-31119-2

Client Matrix: Water

Date Sampled: 11/16/2010 1255

Date Received: 11/16/2010 1720

6010B Dissolved Metals-Dissolved

Method: 6010B

Analysis Batch: 360-66152

Instrument ID: Varian ICP

Preparation: N/A

Lab File ID: 111910d.csv

Dilution: 2.0

Initial Weight/Volume: 1.0 mL

Date Analyzed: 11/19/2010 1829

Final Weight/Volume: 1.0 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		25	200
Chromium	32		1.3	10

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

Client Sample ID: OC-GW-24

Lab Sample ID: 360-31119-3

Client Matrix: Water

Date Sampled: 11/16/2010 1410

Date Received: 11/16/2010 1720

6010B Dissolved Metals-Dissolved

Method: 6010B

Analysis Batch: 360-66152

Instrument ID: Varian ICP

Preparation: N/A

Lab File ID: 111910d.csv

Dilution: 1.0

Initial Weight/Volume: 1.0 mL

Date Analyzed: 11/19/2010 1543

Final Weight/Volume: 1.0 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	ND		0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

Client Sample ID: OC-GW-26

Lab Sample ID: 360-31119-4

Client Matrix: Water

Date Sampled: 11/16/2010 1150

Date Received: 11/16/2010 1720

6010B Dissolved Metals-Dissolved

Method: 6010B

Analysis Batch: 360-66152

Instrument ID: Varian ICP

Preparation: N/A

Lab File ID: 111910d.csv

Dilution: 1.0

Initial Weight/Volume: 1.0 mL

Date Analyzed: 11/19/2010 1546

Final Weight/Volume: 1.0 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	7.3		0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

Client Sample ID: OC-PZ-18R

Lab Sample ID: 360-31119-5

Client Matrix: Water

Date Sampled: 11/16/2010 1405

Date Received: 11/16/2010 1720

6010B Dissolved Metals-Dissolved

Method: 6010B

Analysis Batch: 360-66152

Instrument ID: Varian ICP

Preparation: N/A

Lab File ID: 111910d.csv

Dilution: 1.0

Initial Weight/Volume: 1.0 mL

Date Analyzed: 11/19/2010 1549

Final Weight/Volume: 1.0 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	7.2		0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

Client Sample ID: OC-GW-35S

Lab Sample ID: 360-31119-6

Client Matrix: Water

Date Sampled: 11/16/2010 1120

Date Received: 11/16/2010 1720

6010B Dissolved Metals-Dissolved

Method: 6010B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 11/19/2010 1552
Date Prepared:

Analysis Batch: 360-66152

Instrument ID: Varian ICP
Lab File ID: 111910d.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	26	J	12	100
Chromium	25		0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

Client Sample ID: OC-GW-25

Lab Sample ID: 360-31119-7

Client Matrix: Water

Date Sampled: 11/16/2010 0905

Date Received: 11/16/2010 1720

6010B Dissolved Metals-Dissolved

Method: 6010B

Analysis Batch: 360-66152

Instrument ID: Varian ICP

Preparation: N/A

Lab File ID: 111910d.csv

Dilution: 1.0

Initial Weight/Volume: 1.0 mL

Date Analyzed: 11/19/2010 1554

Final Weight/Volume: 1.0 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		12	100
Chromium	2.8	J	0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

Client Sample ID: OC-GW-76S

Lab Sample ID: 360-31119-8

Client Matrix: Water

Date Sampled: 11/16/2010 1035

Date Received: 11/16/2010 1720

6010B Dissolved Metals-Dissolved

Method: 6010B

Analysis Batch: 360-66152

Instrument ID: Varian ICP

Preparation: N/A

Lab File ID: 111910d.csv

Dilution: 1.0

Initial Weight/Volume: 1.0 mL

Date Analyzed: 11/19/2010 1557

Final Weight/Volume: 1.0 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	14	J	12	100
Chromium	3.1	J	0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

Client Sample ID: OC-GW-CA1

Lab Sample ID: 360-31119-9

Client Matrix: Water

Date Sampled: 11/16/2010 1010

Date Received: 11/16/2010 1720

6010B Dissolved Metals-Dissolved

Method: 6010B

Analysis Batch: 360-66152

Instrument ID: Varian ICP

Preparation: N/A

Lab File ID: 111910d.csv

Dilution: 1.0

Initial Weight/Volume: 1.0 mL

Date Analyzed: 11/19/2010 1600

Final Weight/Volume: 1.0 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	20	J	12	100
Chromium	8.8		0.65	5.0

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

General Chemistry**Client Sample ID: OC-GW-10S**

Lab Sample ID: 360-31119-1

Date Sampled: 11/16/2010 1320

Client Matrix: Water

Date Received: 11/16/2010 1720

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	58		mg/L	2.0	2.0	1.0	300.0
	Analysis Batch: 360-66329	Date Analyzed: 11/22/2010 1918					
Chloride	21		mg/L	1.0	1.0	1.0	300.0
	Analysis Batch: 360-66329	Date Analyzed: 11/22/2010 1918					
Ammonia	0.23		mg/L	0.10	0.10	1.0	L107-06-1B
	Analysis Batch: 360-66305	Date Analyzed: 11/24/2010 1048					
	Prep Batch: 360-66232	Date Prepared: 11/23/2010 1056					
Specific Conductance	170		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028	Date Analyzed: 11/18/2010 1124					

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

General Chemistry**Client Sample ID: OC-GW-201S**

Lab Sample ID: 360-31119-2

Date Sampled: 11/16/2010 1255

Client Matrix: Water

Date Received: 11/16/2010 1720

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	1900		mg/L	100	100	50	300.0
	Analysis Batch: 360-66377	Date Analyzed: 11/24/2010 2127					
Chloride	140		mg/L	10	10	10	300.0
	Analysis Batch: 360-66329	Date Analyzed: 11/22/2010 2103					
Ammonia	160		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-66305	Date Analyzed: 11/24/2010 1135					
	Prep Batch: 360-66232	Date Prepared: 11/23/2010 1056					
Specific Conductance	3600		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028	Date Analyzed: 11/18/2010 1126					

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

General Chemistry**Client Sample ID: OC-GW-24**

Lab Sample ID: 360-31119-3

Date Sampled: 11/16/2010 1410

Client Matrix: Water

Date Received: 11/16/2010 1720

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	67		mg/L	2.0	2.0	1.0	300.0
	Analysis Batch: 360-66329	Date Analyzed: 11/22/2010 2119					
Chloride	9.8		mg/L	1.0	1.0	1.0	300.0
	Analysis Batch: 360-66329	Date Analyzed: 11/22/2010 2119					
Ammonia	28		mg/L	0.50	0.50	5.0	L107-06-1B
	Analysis Batch: 360-66305	Date Analyzed: 11/24/2010 1138					
	Prep Batch: 360-66232	Date Prepared: 11/23/2010 1056					
Specific Conductance	360		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028	Date Analyzed: 11/18/2010 1127					

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

General Chemistry**Client Sample ID: OC-GW-26**

Lab Sample ID: 360-31119-4

Date Sampled: 11/16/2010 1150

Client Matrix: Water

Date Received: 11/16/2010 1720

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	99		mg/L	2.0	2.0	1.0	300.0
	Analysis Batch: 360-66329	Date Analyzed: 11/22/2010 2149					
Chloride	69		mg/L	10	10	10	300.0
	Analysis Batch: 360-66329	Date Analyzed: 11/22/2010 2204					
Ammonia	28		mg/L	0.50	0.50	5.0	L107-06-1B
	Analysis Batch: 360-66305	Date Analyzed: 11/24/2010 1139					
	Prep Batch: 360-66232	Date Prepared: 11/23/2010 1056					
Specific Conductance	550		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028	Date Analyzed: 11/18/2010 1128					

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

General Chemistry**Client Sample ID: OC-PZ-18R**

Lab Sample ID: 360-31119-5

Date Sampled: 11/16/2010 1405

Client Matrix: Water

Date Received: 11/16/2010 1720

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	110		mg/L	20	20	10	300.0
	Analysis Batch: 360-66331	Date Analyzed: 11/22/2010 2334					
Chloride	100		mg/L	10	10	10	300.0
	Analysis Batch: 360-66331	Date Analyzed: 11/22/2010 2334					
Ammonia	20		mg/L	0.10	0.10	1.0	L107-06-1B
	Analysis Batch: 360-66305	Date Analyzed: 11/24/2010 1054					
	Prep Batch: 360-66232	Date Prepared: 11/23/2010 1056					
Specific Conductance	680		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028	Date Analyzed: 11/18/2010 1130					

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

General Chemistry**Client Sample ID: OC-GW-35S**

Lab Sample ID: 360-31119-6

Date Sampled: 11/16/2010 1120

Client Matrix: Water

Date Received: 11/16/2010 1720

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	98		mg/L	2.0	2.0	1.0	300.0
	Analysis Batch: 360-66331	Date Analyzed: 11/22/2010 2350					
Chloride	4.0		mg/L	1.0	1.0	1.0	300.0
	Analysis Batch: 360-66331	Date Analyzed: 11/22/2010 2350					
Ammonia	17		mg/L	0.10	0.10	1.0	L107-06-1B
	Analysis Batch: 360-66305	Date Analyzed: 11/24/2010 1055					
	Prep Batch: 360-66232	Date Prepared: 11/23/2010 1056					
Specific Conductance	450		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028	Date Analyzed: 11/18/2010 1131					

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

General Chemistry**Client Sample ID: OC-GW-25**

Lab Sample ID: 360-31119-7

Date Sampled: 11/16/2010 0905

Client Matrix: Water

Date Received: 11/16/2010 1720

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	93		mg/L	2.0	2.0	1.0	300.0
	Analysis Batch: 360-66331	Date Analyzed: 11/23/2010 0020					
Chloride	130		mg/L	10	10	10	300.0
	Analysis Batch: 360-66331	Date Analyzed: 11/23/2010 0035					
Ammonia	42		mg/L	0.50	0.50	5.0	L107-06-1B
	Analysis Batch: 360-66305	Date Analyzed: 11/24/2010 1140					
	Prep Batch: 360-66232	Date Prepared: 11/23/2010 1056					
Specific Conductance	780		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028	Date Analyzed: 11/18/2010 1133					

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

General Chemistry**Client Sample ID: OC-GW-76S**

Lab Sample ID: 360-31119-8

Date Sampled: 11/16/2010 1035

Client Matrix: Water

Date Received: 11/16/2010 1720

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	55		mg/L	2.0	2.0	1.0	300.0
	Analysis Batch: 360-66331	Date Analyzed: 11/23/2010 0050					
Chloride	71		mg/L	10	10	10	300.0
	Analysis Batch: 360-66331	Date Analyzed: 11/23/2010 0105					
Ammonia	17		mg/L	0.10	0.10	1.0	L107-06-1B
	Analysis Batch: 360-66305	Date Analyzed: 11/24/2010 1057					
	Prep Batch: 360-66232	Date Prepared: 11/23/2010 1056					
Specific Conductance	410		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028	Date Analyzed: 11/18/2010 1134					

Analytical Data

Client: Olin Corporation

Job Number: 360-31119-1

General Chemistry**Client Sample ID: OC-GW-CA1**

Lab Sample ID: 360-31119-9

Date Sampled: 11/16/2010 1010

Client Matrix: Water

Date Received: 11/16/2010 1720

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfate	100		mg/L	20	20	10	300.0
	Analysis Batch: 360-66331	Date Analyzed: 11/23/2010 0135					
Chloride	11		mg/L	1.0	1.0	1.0	300.0
	Analysis Batch: 360-66331	Date Analyzed: 11/23/2010 0120					
Ammonia	1.1		mg/L	0.10	0.10	1.0	L107-06-1B
	Analysis Batch: 360-66305	Date Analyzed: 11/24/2010 1058					
	Prep Batch: 360-66232	Date Prepared: 11/23/2010 1056					
Specific Conductance	600		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-66028	Date Analyzed: 11/18/2010 1136					

DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 360-31119-1

Lab Section	Qualifier	Description
Metals	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Olin Corporation

Job Number: 360-31119-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:360-66152					
LCS 360-66152/1	Lab Control Sample	T	Water	6010B	
LCSD 360-66152/4	Lab Control Sample Duplicate	T	Water	6010B	
MB 360-66152/2	Method Blank	T	Water	6010B	
360-31119-1	OC-GW-10S	D	Water	6010B	
360-31119-2	OC-GW-201S	D	Water	6010B	
360-31119-3	OC-GW-24	D	Water	6010B	
360-31119-4	OC-GW-26	D	Water	6010B	
360-31119-5	OC-PZ-18R	D	Water	6010B	
360-31119-6	OC-GW-35S	D	Water	6010B	
360-31119-7	OC-GW-25	D	Water	6010B	
360-31119-8	OC-GW-76S	D	Water	6010B	
360-31119-9	OC-GW-CA1	D	Water	6010B	

Report Basis

D = Dissolved

T = Total

Quality Control Results

Client: Olin Corporation

Job Number: 360-31119-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:360-66028					
LCS 360-66028/1	Lab Control Sample	T	Water	SM 2510B	
MB 360-66028/4	Method Blank	T	Water	SM 2510B	
360-31119-1	OC-GW-10S	T	Water	SM 2510B	
360-31119-2	OC-GW-201S	T	Water	SM 2510B	
360-31119-3	OC-GW-24	T	Water	SM 2510B	
360-31119-4	OC-GW-26	T	Water	SM 2510B	
360-31119-5	OC-PZ-18R	T	Water	SM 2510B	
360-31119-6	OC-GW-35S	T	Water	SM 2510B	
360-31119-7	OC-GW-25	T	Water	SM 2510B	
360-31119-8	OC-GW-76S	T	Water	SM 2510B	
360-31119-9	OC-GW-CA1	T	Water	SM 2510B	
Prep Batch: 360-66232					
LCS 360-66232/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 360-66232/1-A	Method Blank	T	Water	Distill/Ammonia	
360-31119-1	OC-GW-10S	T	Water	Distill/Ammonia	
360-31119-2	OC-GW-201S	T	Water	Distill/Ammonia	
360-31119-3	OC-GW-24	T	Water	Distill/Ammonia	
360-31119-4	OC-GW-26	T	Water	Distill/Ammonia	
360-31119-5	OC-PZ-18R	T	Water	Distill/Ammonia	
360-31119-6	OC-GW-35S	T	Water	Distill/Ammonia	
360-31119-7	OC-GW-25	T	Water	Distill/Ammonia	
360-31119-8	OC-GW-76S	T	Water	Distill/Ammonia	
360-31119-9	OC-GW-CA1	T	Water	Distill/Ammonia	
Analysis Batch:360-66305					
LCS 360-66232/2-A	Lab Control Sample	T	Water	L107-06-1B	360-66232
MB 360-66232/1-A	Method Blank	T	Water	L107-06-1B	360-66232
360-31119-1	OC-GW-10S	T	Water	L107-06-1B	360-66232
360-31119-2	OC-GW-201S	T	Water	L107-06-1B	360-66232
360-31119-3	OC-GW-24	T	Water	L107-06-1B	360-66232
360-31119-4	OC-GW-26	T	Water	L107-06-1B	360-66232
360-31119-5	OC-PZ-18R	T	Water	L107-06-1B	360-66232
360-31119-6	OC-GW-35S	T	Water	L107-06-1B	360-66232
360-31119-7	OC-GW-25	T	Water	L107-06-1B	360-66232
360-31119-8	OC-GW-76S	T	Water	L107-06-1B	360-66232
360-31119-9	OC-GW-CA1	T	Water	L107-06-1B	360-66232

Quality Control Results

Client: Olin Corporation

Job Number: 360-31119-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:360-66329					
LCS 360-66329/6	Lab Control Sample	T	Water	300.0	
MB 360-66329/5	Method Blank	T	Water	300.0	
360-31119-1	OC-GW-10S	T	Water	300.0	
360-31119-1DU	Duplicate	T	Water	300.0	
360-31119-2	OC-GW-201S	T	Water	300.0	
360-31119-3	OC-GW-24	T	Water	300.0	
360-31119-4	OC-GW-26	T	Water	300.0	
Analysis Batch:360-66331					
LCS 360-66331/6	Lab Control Sample	T	Water	300.0	
MB 360-66331/5	Method Blank	T	Water	300.0	
360-31119-5	OC-PZ-18R	T	Water	300.0	
360-31119-6	OC-GW-35S	T	Water	300.0	
360-31119-7	OC-GW-25	T	Water	300.0	
360-31119-8	OC-GW-76S	T	Water	300.0	
360-31119-9	OC-GW-CA1	T	Water	300.0	
Analysis Batch:360-66377					
LCS 360-66377/6	Lab Control Sample	T	Water	300.0	
MB 360-66377/5	Method Blank	T	Water	300.0	
360-31119-2	OC-GW-201S	T	Water	300.0	

Report Basis

T = Total

Quality Control Results

Client: Olin Corporation

Job Number: 360-31119-1

Method Blank - Batch: 360-66152

Method: 6010B
Preparation: N/A

Lab Sample ID: MB 360-66152/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/19/2010 1400
Date Prepared: N/A

Analysis Batch: 360-66152
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 111910d.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Aluminum	ND		12	100
Chromium	ND		0.65	5.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 360-66152

Method: 6010B
Preparation: N/A

LCS Lab Sample ID: LCS 360-66152/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/19/2010 1357
Date Prepared: N/A

Analysis Batch: 360-66152
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 111910d.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 360-66152/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/19/2010 1448
Date Prepared: N/A

Analysis Batch: 360-66152
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: 111910d.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aluminum	100	99	80 - 120	0	20		
Chromium	100	99	80 - 120	1	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-31119-1

Method Blank - Batch: 360-66329

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-66329/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/22/2010 1632
Date Prepared: N/A

Analysis Batch: 360-66329
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-66329

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-66329/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/22/2010 1647
Date Prepared: N/A

Analysis Batch: 360-66329
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	83.8	105	85 - 115	
Chloride	40.0	41.5	104	85 - 115	

Duplicate - Batch: 360-66329

Method: 300.0

Preparation: N/A

Lab Sample ID: 360-31119-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/22/2010 2018
Date Prepared: N/A

Analysis Batch: 360-66329
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Sulfate	58	57.7	0.08	20	
Chloride	21	20.7	1	20	

Quality Control Results

Client: Olin Corporation

Job Number: 360-31119-1

Method Blank - Batch: 360-66331

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-66331/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/22/2010 2304
Date Prepared: N/A

Analysis Batch: 360-66331
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-66331

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-66331/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/22/2010 2319
Date Prepared: N/A

Analysis Batch: 360-66331
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	83.6	105	85 - 115	
Chloride	40.0	41.3	103	85 - 115	

Quality Control Results

Client: Olin Corporation

Job Number: 360-31119-1

Method Blank - Batch: 360-66377

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-66377/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/24/2010 1610
Date Prepared: N/A

Analysis Batch: 360-66377
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-66377

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 360-66377/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/24/2010 1625
Date Prepared: N/A

Analysis Batch: 360-66377
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	82.6	103	85 - 115	
Chloride	40.0	41.8	104	85 - 115	

Quality Control Results

Client: Olin Corporation

Job Number: 360-31119-1

Method Blank - Batch: 360-66232

Lab Sample ID: MB 360-66232/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/24/2010 1040
Date Prepared: 11/23/2010 1056

Analysis Batch: 360-66305
Prep Batch: 360-66232
Units: mg/L

Method: L107-06-1B Preparation: Distill/Ammonia

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL	RL
Ammonia	ND		0.10	0.10

Lab Control Sample - Batch: 360-66232

Lab Sample ID: LCS 360-66232/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/24/2010 1041
Date Prepared: 11/23/2010 1056

Analysis Batch: 360-66305
Prep Batch: 360-66232
Units: mg/L

Method: L107-06-1B Preparation: Distill/Ammonia

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	10.0	9.33	93	85 - 115	

Quality Control Results

Client: Olin Corporation

Job Number: 360-31119-1

Method Blank - Batch: 360-66028

Method: SM 2510B
Preparation: N/A

Lab Sample ID: MB 360-66028/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/18/2010 1005
Date Prepared: N/A

Analysis Batch: 360-66028
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Autotitrator
Lab File ID: 10111800.TXT
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	ND		1.0	1.0

Lab Control Sample - Batch: 360-66028

Method: SM 2510B
Preparation: N/A

Lab Sample ID: LCS 360-66028/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/18/2010 0942
Date Prepared: N/A

Analysis Batch: 360-66028
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Autotitrator
Lab File ID: 10111800.TXT
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1410	1380	97	85 - 115	

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried				
		New Hampshire (NELAC) prim.	Mass	Conn	Florida (NELAC)	North Carolina
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP			NP	
SM 4500 Cl F	Chlorine, Residual		NP			
SM 9215E	Heterotrophic Plate Count (SimPlate)		P			
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP			
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P			
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P			
1103.1	E.coli		ambient/ source			
Enterolert	Enterococcus					
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	NP/P		
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	NP/P		
6010B	Metals (ICP)(list upon request)	NP/SW		NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	NP/P		
7470A	Mercury (CVAA)	NP		NP		
7471A	Mercury (CVAA)	SW		SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	NP/P		
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		NP/P		
3010A	Preparation, Total Metals	NP/P		NP/P		
3020A	Preparation, Total Metals	NP/P/SW		NP/P/SW		
3050B	Preparation, Metals	SW		SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	P		
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	NP		
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP		NP		
3546	Microwave Extraction	SW				
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		NP		
3540C	Soxhlet Extraction	SW				
3550B	Ultrasonic Extraction	SW		SW		
600/4-81-045	Polychlorinated Biphenyls (PCBs) (GC)		NP	NP		
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW		NP/SW		
8082A	PCBs by Gas Chromatography(list upon request)	NP/SW		NP/SW		
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)			NP/SW		
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	P		
524.2	Trihalomethane compounds	P	P	P		
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	NP		
5035	Closed System Purge and Trap	SW		SW		
5030B	Purge and Trap	NP		NP		
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
180.1	Turbidity, Nephelometric	P	P	P		
300	Anions, Ion Chromatography	NP/P	NP/P	NP/P		
410.4	COD	NP	NP	NP		
1010	Ignitability, Pinsky-Martens Closed-Cup Method	SW		SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	NP		
7196A	Chromium, Hexavalent	NP/SW		NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		NP		
9040B	pH	NP		NP		
9045C	pH	SW		SW		
L107041C	Nitrogen, Nitrate	NP	P	NP/P		
L107-06-1B	Nitrogen Ammonia	NP	NP	NP/P		
L204001A CN	Cyanide, Total	P	NP/P	NP/P		
L210-001A	Phenolics, Total Recoverable	NP	NP	NP		
SM 2320B	Alkalinity	NP/P	NP/P	NP/P		
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	NP/P		
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	NP/P		
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	NP		
SM 3500 CR D	Chromium, Hexavalent	NP		NP		
SM 4500 H+ B	pH	NP/P	NP/P	NP/P		
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	NP/P		
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	NP/P		
SM 4500 P E	Phosphorus, Total	NP	NP	NP		
SM 4500 S2 D	Sulfide, Total	NP		NP		
SM 5210B	BOD, 5-Day	NP	NP	NP		
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	NP/P		

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Check List

Client: Olin Corporation

Job Number: 360-31119-1

Login Number: 31119

List Source: TestAmerica Westfield

Creator: Beaumier, Janine E

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Chain of Custody Record

TestAmerica
700 LEAH AVENUE WESTFIELD, MA 01085

Client Information		Sample:		Lab PM:		Carrier Tracking No(s):	
Client Contact: Steve Morrow		Phone: (413) 572-4000		Mason, Becky C			
Company: Olin Corporation		Address: 51 Eames Street		E-Mail: becky.mason@testamericainc.com		Page: 1 of 1	
City: Wilmington		State, Zip: MA, 01887		Job #: 260-31119		COC No: 360-10704.1	
Phone: (413) 572-4000		PO #: REW10013		Date: 11/16/10		Time: 15:30	
Email: (413) 572-4000		WO #: 36001816		Date: 11/16/10		Time: 15:30	
Project Name: Olin Semi-Annual Groundwater		Project #: 36001816		Date: 11/16/10		Time: 15:30	
Site: Olin Semi-Annual Groundwater		SSOW#: 36001816		Date: 11/16/10		Time: 15:30	
Due Date Requested:		TAT Requested (days):		Analysis Requested		Preservation Codes:	
51 Eames Street		10 business day		Field Filtered Sample (Yes or No)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - NaOH G - Anion H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - Other (specify)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab, S=Soil, O=Other, A=Air)	
OC-GW-10S		11/16/10		13:30		G	
OC-GW-201S		11/16/10		12:55		G	
OC-GW-24		11/16/10		14:10		G	
OC-GW-26		11/16/10		11:50		G	
OC-GW-34D		11/16/10		11:05		G	
OC-GW-34SE OC-PZ-18R		11/16/10		11:05		G	
OC-GW-35S		11/16/10		11:20		G	
OC-GW-35S		11/16/10		09:05		G	
OC-GW-76S		11/16/10		10:35		G	
OC-GW-CA1		11/16/10		10:10		G	
OC-BUP		11/16/10		10:10		G	
Possible Hazard Identification		Flammable		Skin Irritant		Poison B	
Deliverable Requested: I, II, III, IV, Other (specify)		Unknown		Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Mark Morrow		Date: 11/16/10		Time: 15:30		Company: TA	
Relinquished by: Mark Morrow		Date: 11/16/10		Time: 17:30		Company: TA	
Relinquished by: Mark Morrow		Date: 11/16/10		Time: 17:30		Company: TA	
Custody Seal Intact: A Yes A No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.0°C w/ice		Samples not frozen	